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workers in Great Britain, France and Germany to secure control of what remains.

A DESPATCH to the daily papers from Portland, Ore., states that Mt. Hood has been in eruption. A party of twenty-one persons narrowly escaped being buried under an avalanche of rock and ashes.

A MONUMENT in memory of the mineralogist and poet, Franz von Kobel, was unveiled in Munich on July 19th. Franz von Kobel, who died in 1882, was for more than 50 years professor of mineralogy in the University of Munich and made many contributions to all departments of the science, and was also well known among the people for his poems in the Bavarian dialects.

A COMMITTEE to forward the erection of the Pasteur monument has been formed in Bavaria, consisting of Professors v. Pettenkofer, v. Ziemssen and Buchner.

Electricity notes that it is proposed to erect a monument over the grave of Georg Simon Ohm. Subscriptions will be received by the Königliche Filiabank, Munich.

THE fiftieth anniversary of the Smithsonian Institution is made the occasion of an extended article on its history and present condition by Dr. Max Voretzsch in *Die Natur* for August 30th.

THE catalogue issued during August by Bernard Quaritch, 15 Piccadilly, London, offers for sale a large number of scientific books, some of them of great value, such as complete sets of the *American Journal of Science* (£110), *Curtis's Botanical Magazine* (£148), *Monthly Notices of the Royal Astronomical Society* (£24), etc.

THE Macmillan Co. announce the following new volumes in the Rural Science Series edited by Prof. Bailey, of Cornell University: 'The Apple,' by L. H. Bailey; nearly ready. 'Fertility of the Land,' by I. P. Roberts, of Cornell University; ready in October. 'Physiology of Plants,' by J. C. Arthur, of Purdue University. 'Grasses,' by W. H. Brewer, of Yale University. 'Bush Fruits,' by F. W. Card, of the University of Nebraska. 'Plant Diseases,' by B. T. Gallo-way, E. F. Smith and A. F. Woods, of the U. S. Department of Agriculture. 'Seeds and Seed

Growing,' by G. H. Hicks, of the U. S. Department of Agriculture. 'Leguminous Plants,' by E. H. Hilgard, of the University of California. 'Feeding of Animals,' by W. H. Jordan, of Maine Experiment Station. 'Irrigation,' by F. H. King, of the University of Wisconsin. 'Milk and its Products,' by H. H. Wing, of Cornell University.

AMONG D. Appleton & Co.'s September publications are 'What is Electricity?' by Prof. John Trowbridge, of Harvard University, a new volume in the International Scientific Series, and 'Alterations in Personality,' by M. Alfred Binet, with an introduction by Prof. J. Mark Baldwin.

THE Royal Society of Sciences, of Saxony, celebrated the fiftieth anniversary of its foundation on July 1st. The King of Saxony was present and an address was made by the eminent chemist, Prof. Wislicenus.

A COMPANY has been organized at Little Rock, Ark., with a view to using horseless carriages in the place of, or in opposition to, the street cars. A franchise has been requested and a proposition made to the City Council to pay 5 per cent. of the net receipts to the city.

UNIVERSITY AND EDUCATIONAL NEWS.

THE Columbian University, Washington, has established a veterinary department, the faculty of which will include D. E. Salmon, who will be dean of the faculty, professor of sanitary medicine, control and eradication of contagious diseases and inspection of meats; John Lockwood, professor of theory and practice of medicine and surgery; William P. Carr, professor of general physiology; E. A. de Schweinitz, professor of chemistry; Charles F. Dawson, professor of physiology and pathology; A. M. Farrington, professor of obstetrics and zootechnics; D. E. Buckingham, professor of materia medica and therapeutics; James Carroll, professor of pathology and bacteriology; Cecil French, professor of canine pathology; Albert Hassall, professor of parasitology. W. S. Washburn, professor of histology; Charles F. Hadfield, demonstrator of anatomy; C. Wardell Stiles, lecturer on zoology and Edwin Willitts, lecturer on medical jurisprudence.

A DEPARTMENT of biology in the graduate school of Georgetown University has been organized and placed under the direction of Dr. C. W. Stiles. The instructors and lecturers include Merton B. Waite, professor of botany; Sylvester D. Judd, instructor in biology; Dr. Frank Baker, lecturer on anthropology; Dr. Leland O. Howard, lecturer on insects; Dr. T. S. Palmer, lecturer on mammals; Prof. James E. Benedict, lecturer on marine invertebrates; Prof. Charles T. Simpson, lecturer on mollusks; Prof. Chas. W. Richmond, lecturer on birds; Prof. Henry Olds, lecturer on songs of birds, and Prof. W. P. Hay, lecturer on amphibia and reptiles.

A COMMITTEE of the graduate students of Bryn Mawr College has in preparation a handbook of courses open to women in foreign universities. It will contain a complete list of professors and lecturers at all colleges and universities where women are admitted; together with the subjects in which lectures are given, the entrance requirements, fees, beginnings and endings of terms, degrees granted to women, and other particulars of importance. In this connection it may be noted that the University of Durham will not only open the degree of B. A. to women, but will also throw open some eight scholarships and exhibitions, varying in value from £20 to £70 a year, besides various university prizes, and that Bonn has followed the example of several other German universities and now admits to the lectures women who can show proper preparation and secure the permission of the lecturer.

THE Pope gave permission last year for laymen to attend the English universities, and the Duke of Norfolk has purchased for \$65,000 a site on which it is proposed to erect a Roman Catholic college at Oxford.

PROF. W. L. AMES, who has been for some years at the head of the Department of Drawing and Designing at the Rose Polytechnic Institute, has recently resigned to accept a similar position in the Worcester Polytechnic Institute.

MISS PARKER, a daughter of Prof. W. A. Parker, of the University of Alabama, has been appointed professor of natural sciences in the Georgia Industrial College at Milledgeville.

THE correspondent of the N. Y. *Evening Post* from Colgate University writes that Mr. J. Fay Smith, a graduate student of Cornell University, will take charge of the department of physics until January, when Prof. Nichols, who has been for two and a half years at the University in Berlin, will return. Mr. H. E. Nims has charge of the department of chemistry during Prof. McGregory's absence in Göttingen, where he will remain until January.

THE following appointments are announced in the *Naturwissenschaftliche Rundschau*: Dr. Lobry de Bruyn has been made full professor of general and pharmaceutical chemistry in the University of Amsterdam; Dr. W. H. Julius has been promoted to a full professorship of physics in the University of Utrecht; Dr. Wilhelm Fleischmann, of the University of Königsberg, has been made director of the agricultural institution at the University of Göttingen, and Dr. Emil Erlenmeyer has been appointed assistant professor of chemistry in the University of Strasburg.

SCIENTIFIC LITERATURE.

Ice Work Present and Past. T. G. BONNEY, D. Sc., LL.D., F.R.S., F.S.A., F.G.S. International Scientific Series. D. Appleton & Company. 1896.*

In the introduction it is intimated that this work is written primarily for the student. There are many passages, however, which indicate that amateurs, teachers, general geologists, and even glacial specialists, were in the author's mind as he wrote. It is not, on the one hand, a strictly popular work adapted to those who are quite unfamiliar with the subject; nor is it, on the other, a thoroughgoing treatise especially serviceable to glacialists. It is not clear that the author has been altogether successful in the difficult task of adapting his method and matter to the intermediate class. A doubt arises whether he has been explicit and illustrative enough upon the glacial fundamentals, on the one hand, and, on the other, whether he has not entered so much into detail in the treatment of certain local phenomena, es-

* Reviewed by request.